



General Purpose (0.5Hz to 6kHz band) Accelerometer

Model CA-YD-107

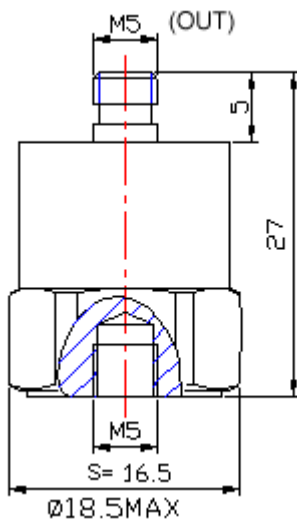
FEATURES

- General purpose vibration and shock measurement
- No supply required
- Charge output
- Plane shear



SUPPLIED WITH

- Calibration chart
- M5 to M5 stud
- M5 to M8 stud
- Protective cap
- STYV-1 cable, fitted with L5 connectors (2m)



PERFORMANCE

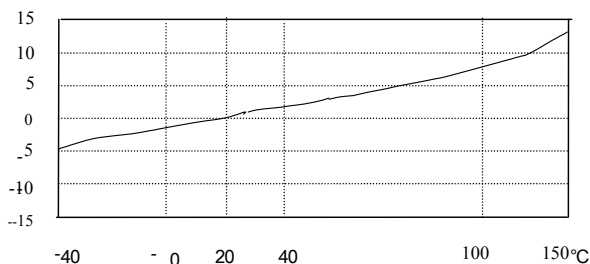
| | |
|-------------------------|----------------------|
| Sensitivity (at 20±5°C) | 5pC/ms ⁻² |
| Transverse sensitivity | ≤5% |
| Frequency response | see graph below |
| Frequency range (10%) | 0.5Hz to 6kHz |
| Mounted resonance | 25kHz |
| Temperature response | see graph below |
| Output phase | in phase with input |
| Isolation resistance | >10 ⁹ Ω |
| Capacitance | 1200pF |

ENVIRONMENTAL CHARACTERISTICS

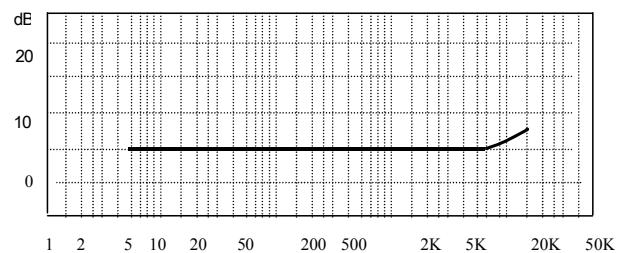
| | |
|-------------------------------|---|
| Temperature range | -40 to +150 °C |
| Shock limit | 8000ms ⁻² |
| Thermal transient sensitivity | 4×10 ⁻² ms ⁻² /°C (0.3Hz) |
| Magnetic sensitivity | 20ms ⁻² /T |
| Base strain sensitivity | 2×10 ⁻³ ms ⁻² /με |

PHYSICAL CHARACTERISTICS

| | |
|-----------------------|------------------|
| Weight | 28g |
| Case material | stainless steel |
| Mounting | M5 stud |
| Sensing element | PZT-5 |
| Sensor design | plane shear |
| Electrical connection | top L5 connector |



Typical Temperature Response



Typical Frequency Response (Hz)